STIC Search Report
EIC 2600

STIC Database Tracking Number: 172195

TO: Brian Le **Location:** KNX9A61 **Art Unit : 2621** **Tuesday, November 22, 2005** **Case Serial Number: 09/699614**	**From: Samir Patel** **Location: EIC 2600** **KNX-8B68** **Phone: 571-272-3537** **Samir.patel@uspto.gov**

Search Notes

Dear Examiner,

Attached are the search results (from commercial databases) for your case.

Tags mark the patent/articles, which might be of interest. After you review all records including tagged and untagged records, if you wish to order the complete text of any record, please submit request(s) directly to the STIC-EIC 2600 Email Box.

Please call if you have any questions or suggestions, and I have enclosed a Search Results Feedback Form to facilitate further comments or suggestions.

Thanks

Samir Patel

— 87

RUSH SPE SIGNATURE _____ Access DB# 122195

SEARCH REQUEST FORM

Scientific and Technical Information Center

EIC 2600

79178

Requester's Full Name Brian Lee Examiner # ~~2627~~ Date 11/21/05

Art Unit 2621 Phone Number _____ Serial Number 09/699614

Office Location _____ Format preferred (circle) PAPER EMAIL BOTH

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Let us know what you already have and so do not need. Include the keywords, synonyms and meaning of acronyms. Define all terms that may have a specific meaning. Please attach a copy of the background, abstract, claims and other pertinent information.

Please state how the terms or keyword strings should relate to one another.

Title of the Invention _____

Inventor(s)

_____

_____

Earliest Priority date to be used 10/30/2000

****

STAFF USE ONLY

Searcher Sami o Patel

Phone 2-3537

Location KNX RR68

Date picked up 11/22/05 / 10:00 AM

Date completed 11/22/05 / 3:00 P.M

Search Prep/review 100

Online Time 140

TYPE of Search

Text _____

Litigation _____

Other _____

Databases Searched

Dialog ✓

STN _____

QuestelOrbit _____

LEXIS/NEXIS _____

Courtlink _____

Other _____

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	8277	fan.ti.	USPAT	OR	ON	2005/11/22 15:35
L2	13185	fan with blades	USPAT	OR	ON	2005/11/22 15:36
L3	37	fan with blades with skew	USPAT	OR	ON	2005/11/22 15:41
L4	0	target same fan with blades with skew	USPAT	OR	ON	2005/11/22 15:42
L5	161	target with fan near shap$4	USPAT	OR	ON	2005/11/22 15:42
L6	23	target near2 fan near shap$4	USPAT	OR	ON	2005/11/22 15:43
L7	4	("3502562" | "4200510" | "4297189").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/11/22 15:44

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File   2:INSPEC 1898-2005/Nov W2
         (c) 2005 Institution of Electrical Engineers
File   6:NTIS 1964-2005/Nov W2
         (c) 2005 NTIS, Intl Cpyrght All Rights Res
File   8:Ei Compendex(R) 1970-2005/Nov W2
         (c) 2005 Elsevier Eng.  Info. Inc.
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         (c) 2005 Foundation Center
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         (c) 2005 Inst for Sci Info
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         (c) 2005 ProQuest Info&Learning
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         (c) 2005 American Institute of Physics
File  65:Inside Conferences 1993-2005/Nov W3
         (c) 2005 BLDSC all rts. reserv.
File  92:IHS Intl.Stds.& Specs. 1999/Nov
         (c) 1999 Information Handling Services
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         (c)2005 Japan Science and Tech Corp(JST)
File  95:TEME-Technology & Management 1989-2005/Oct W3
         (c) 2005 FIZ TECHNIK
File  99:Wilson Appl. Sci & Tech Abs 1983-2005/Oct
         (c) 2005 The HW Wilson Co.
File 144:Pascal 1973-2005/Nov W2
         (c) 2005 INIST/CNRS
File 239:Mathsci 1940-2005/Jan
         (c) 2005 American Mathematical Society
File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
         (c) 1998 Inst for Sci Info
File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13
         (c) 2002 The Gale Group
File 603:Newspaper Abstracts 1984-1988
         (c)2001 ProQuest Info&Learning
File 483:Newspaper Abs Daily 1986-2005/Nov 21
         (c) 2005 ProQuest Info&Learning
File 248:PIRA 1975-2005/Oct W5
         (c) 2005 Pira International

Set     Items   Description
S1    6909751   TARGET?? OR OBJECT?? OR PACKAG??? OR INSPECT??? OR LOCAT???
              OR IDENTIFICATI??? OR VERFI? OR MATCH???
S2     237345   FAN??
S3     128339   BLADE??
S4       4747   (ALTER?????? OR CHANG???? OR DIFFERENT?? OR NONZERO?? OR N-
              ON()ZERO??)(5N)(SKEW?? OR SPIRAL??)
S5       5546   RADIAL??(5N)(CURV?? OR CURVATUR?? OR (ROUND??? OR CIRCUL??-
              ???)(5N)(BOUND???? OR EDG??? OR PERIMETER?? OR CIRCUMFEREN???)
              OR NONSTRAIGHT?? OR NON()STRAIGHT??)
S6    4302346   SHAP?? OR FIGURE?? OR CONTOUR?? OR PATTERN??
S7        559   (DISTINGUISH??? OR DIFFERENTIA????? OR DIFFER???? OR DIFFE-
              REC???? OR SEPARAT???? OR DISCRIMINAT???)(5N)BLAD???(5N)S6
S8       9608   (S2 OR S3)(5N)S6
S9        275   AU=(SILVER W? OR SILVER, W?)
S10         0   S8 AND S1 AND S4 AND S5
S11         0   S8 AND S1 AND S4
S12         0   S8 AND S4 AND S5
S13        12   S8 AND (S4 OR S5)
S14        11   RD (unique items)
S15         9   S14 NOT PY>2000
S16         3   S7 AND (S4 OR S5)
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S17          3   RD (unique items)
S18          2   S8 AND SKEW??? AND RADIAL??
S19          2   S18 NOT (S13 OR S17)
S20          0   (S2 OR S3) AND S1 AND S4 AND S5
S21          1   (S2 OR S3) AND S4 AND S5
S22          0   S9 AND (S2 OR S3)
?
```

S15 9 S14 NOT PY>2000
? type/3,k/all

15/3,K/1 (Item 1 from file: 6)
DIALOG(R)File 6:NTIS

1910306 NTIS Accession Number: N95-33804/2
Use of TOPSAR Digital Elevation Data to Determine the 3-Dimensional Shape **of an Alluvial** Fan
Farr, T. G.
Jet Propulsion Lab., Pasadena, CA.
Corp. Source Codes: 014828000; JJ574450
Sponsor: National Aeronautics and Space Administration, Washington, DC.
23 Jan 95 4p
Languages: English Document Type: Journal article
Journal Announcement: GRAI9524; STAR3312
In Its Summaries of the Fifth Annual JPL Airborne Earth Science Workshop. Volume 3: Airsar Workshop p 9-12.
NTIS Prices: (Order as N95-33801, PC A04/MF A01)

Use of TOPSAR Digital Elevation Data to Determine the 3-Dimensional Shape **of an Alluvial** Fan
...to separate the effects of tectonic (uplift) and climatic (weathering, runoff, sedimentation) processes on the **shapes** of alluvial **fan** units, a modified conic equation developed by Troeh (1965) was fitted to TOPSAR digital topographic...
...alluvial fan in Death Valley, California. This allows parameters for the apex position, slope, and **radial curvature** to be compared with unit age.

15/3,K/2 (Item 2 from file: 6)
DIALOG(R)File 6:NTIS

1799308 NTIS Accession Number: AD-A277 325/7
Incorporating Radial **Mixing in Axisymmetric Streamline** Curvature **Through-Flow Analysis**
(Final technical rept. May 92-Sep 93)
Grabowska, D. G. ; Kavanagh, P.
Iowa State Univ., Ames. Engineering Research Inst.
Corp. Source Codes: 001712028; 404418
Sponsor: Air Force Office of Scientific Research, Bolling AFB, DC.
Report No.: ISU-ERI-AMES-94-088; AFOSR-TR-94-0079
Sep 93 114p
Languages: English
Journal Announcement: GRAI9413
Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)321-8547; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.
NTIS Prices: PC A06/MF A02

Incorporating Radial **Mixing in Axisymmetric Streamline** Curvature **Through-Flow Analysis**
... convergence is obtained. Simple examples are presented to illustrate the solution technique. Turbomachinery flow analysis, **Radial** mixing, Streamline **curvature** solution.
Descriptors: *Axial flow; *Turbomachinery; Coding; Convergence; Curvature

; Fortran; Iterations; **Patterns** ; Turbine **blades** ; Inviscid flow; Computer programs

15/3,K/3 (Item 3 from file: 6)
DIALOG(R)File 6:NTIS

0409223 NTIS Accession Number: AD-769 033/2/XAB
Measured and Predicted Flow near the Exit of a Radial-Flow Impeller
McDonald, G. B. ; Lennemann, E. ; Howard, J. H. G.
Waterloo Univ (Ontario) Dept of Mechanical Engineering
Corp. Source Codes: 401536
21 Dec 70 7p
Document Type: Journal article
Journal Announcement: GRAI7324
Presented at the Gas Turbine Conference and Products Show, Houston, Tex., 28 Mar-1 Apr 71, of the American Society of Mechanical Engineers. (Paper 71-GT-15).
Pub. in Transactions of the ASME: Jnl. of Engineering for Power, p441-446 Oct 71.
NTIS Prices: Not available NTIS

Experimental measurements are presented of the velocity field near the exit of a **radial** impeller with backward- **curved** **blades** . The flow **pattern** and its variation with changes in the flow coefficient are compared with numerical predictions on...

15/3,K/4 (Item 1 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)

02934385 E.I. Monthly No: EI9008091574
Title: Modeling and calculation of jet foam extinguishers.
Author: Betoshkin, A. G.
Corporate Source: Moscow Inst of Chemical Engineering, Moscow, USSR
Source: Theoretical Foundations of Chemical Engineering (English Translation of Teoreticheskie Osnovy Khimicheskoi Tekhnologii) v 22 n 6 Jul 1989 p 535-540
Publication Year: 1989
CODEN: TFCEAU ISSN: 0040-5795
Language: English

Abstract: The semiemperical theory of turbulent steams and the equation of the **boundary** layer for axially symmetrical **circular** and **radial** **fan - shaped** jets have been used to determine their coordinates, at which the conditions for foam breakdown...

...reached, and the velocity of foam supply to the mixing zone. Calculations of the radial **fan - shaped** jet, at which conditions are reached for the breakdown of the foam, are in satisfactory...
Identifiers: BOUNDARY LAYER; **FAN - SHAPED** JETS; FOAM BREAKDOWN; HYDRAULIC RESISTANCE; JET FOAM FIRE EXTINGUISHERS; TURBULENT FLOW

15/3,K/5 (Item 2 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)

01859962 E.I. Monthly No: EIM8503-015385
Title: THEORETICAL INVESTIGATION OF THE OPERATING BEHAVIOUR OF ROTATING RADIAL BLADINGS DUE TO THE VARIATION OF THE REYNOLDS NUMBER.
Author: Steck, E.; Felsch, K. O.
Corporate Source: Univ Karlsruhe, Inst fuer Stroemungslehre und Stroemungsmaschinen, Karlsruhe, West Ger
Conference Title: Numerical Methods in Laminar and Turbulent Flow, Proceedings of the Third International Conference.
Conference Location: Seattle, WA, USA Conference Date: 19830808
E.I. Conference No.: 05656
Source: Numerical Methods in Laminar and Turbulent Flow, Proceedings of the International Conference. 3rd. Publ by Pineridge Press, Swansea, Wales p 500-508
Publication Year: 1983
CODEN: NMLFEV ISBN: 0-906674-22-0
Language: English

Abstract: The plane laminar flow through rotating **radial** cascades with backwardly **curved** vanes is covered. The density and viscosity of the fluid are assumed to be constant...
...the equations of motion and continuity are transformed to non-orthogonal coordinates aligned with the **blade contours** . For the solution of the boundary value problem, an implicit difference method was used. The...

15/3,K/6 (Item 3 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)

01614271 E.I. Monthly No: EI8412136583 E.I. Yearly No: EI84103377
Title: Calculation of the Plane Flow Through Rotating Radial Cascades.
Title: BERECHNUNG DER EBENEN STROEMUNG DURCH ROTIERENDE RADIALE SCHAUFELGITTER.
Author: Steck, E.
Source: VDI Ber 424, Hydraul Stroemungsmasch, Braunschweig, West Ger, Oct 14-16 1981. Publ by VDI Verlag, Duesseldorf, West Ger, 1981 p 167-172
Publication Year: 1981
CODEN: VDIBAP ISSN: 0083-5560
Language: GERMAN

Abstract: The plane flow of both ideal and highly viscous fluids through rotating **radial** cascades with backwards **curved** vanes is calculated. Introducing the stream function and the vorticity, the equations of motion and continuity are transformed to non-orthogonal coordinates aligned with the **blade contours** . For solving the boundary value problem an implicit difference method is used. The operating behavior...

15/3,K/7 (Item 4 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)

01338201 E.I. Monthly No: EI8303023109 E.I. Yearly No: EI83101762
Title: Calculation Method for Behavior of Rotary Radial Cascades.
Title: BERECHNUNG DES BETRIEBSVERHALTENS ROTIERENDER RADIALGITTER.
Author: Steck, Ewald
Corporate Source: Univ Karlsruhe, Ger
Source: Stroemungsmechanik und Stroemungsmaschinen n 30 1981 p 1-40
Publication Year: 1981
CODEN: SMSMC4 ISSN: 0585-427X

Language: GERMAN

Abstract: The plane flow of both ideal and highly viscous fluids through rotating **radial** cascades with arbitrarily backwards **curved** vanes is calculated. Introducing the stream function and the vorticity, the Navier-Stokes equations are transformed to nonorthogonal coordinates aligned with the **blade contours** . For solving the boundary value problem an implicit difference method of second order is applied...

15/3,K/8 (Item 5 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)

00940175 E.I. Monthly No: EI8008060359 E.I. Yearly No: EI80041899
Title: EFFECT OF TIP SHAPE **ON** BLADE **LOADING CHARACTERISTICS AND WAKE GEOMETRY FOR A TWO-BLADED ROTOR IN HOVER.**
Author: Ballard, John D.; Orloff, Kenneth L.; Luebs, Alan
Corporate Source: NASA, Ames Res Cent, Moffett Field, Calif
Source: Journal of the American Helicopter Society v 25 n 1 Jan 1980 p 30-35
Publication Year: 1980
CODEN: JHESAK ISSN: 0002-8711
Language: ENGLISH

Title: EFFECT OF TIP SHAPE **ON** BLADE **LOADING CHARACTERISTICS AND WAKE GEOMETRY FOR A TWO-BLADED ROTOR IN HOVER.**
...Abstract: velocity tangent to a closed rectangular contour around the airfoil section at a number of **radial** locations. A relationship between local **circulation** and **bound** vorticity was invoked to obtain the radial variations in the sectional lifting properties of the...

15/3,K/9 (Item 1 from file: 94)
DIALOG(R)File 94:JICST-EPlus

04653650 JICST ACCESSION NUMBER: 00A0699563 FILE SEGMENT: JICST-E
Performance Characteristics of Controllable Pitch Side Thrusters with Different Skew Distributions. 1st Report. Open Water Characteristics of Side Thrusters.
YAMASAKI SHOSABURO (1); ISHIHARA YASUAKI (1)
(1) Nakashima Propeller Co., Ltd.
Nippon Zosen Gakkai Ronbunshu(Journal of the Society of Naval Architects of Japan), 2000, NO.187, PAGE.33-39, FIG.12, TBL.4, REF.4
JOURNAL NUMBER: G0242ABB ISSN NO: 0514-8499
UNIVERSAL DECIMAL CLASSIFICATION: 629.5.02
LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan
DOCUMENT TYPE: Journal
ARTICLE TYPE: Original paper
MEDIA TYPE: Printed Publication

Performance Characteristics of Controllable Pitch Side Thrusters with Different Skew Distributions. 1st Report. Open Water Characteristics of Side Thrusters.
...ABSTRACT: DEG.(zero) pitch angle). Therefore, it is very important to consider changes of the geometrical **shapes** with the twist of impeller **blades** and their performance characteristics in the design of controllable pitch side thrusters. In the present...

...the backward skew type(B) are designed and the above-mentioned changes of the geometrical **shapes** with the twist of impeller **blades** are calculated and their open water characteristics are investigated theoretically and experimentally. The open water...

?

17/3,K/1 (Item 1 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)

01859962 E.I. Monthly No: EIM8503-015385
Title: THEORETICAL INVESTIGATION OF THE OPERATING BEHAVIOUR OF ROTATING RADIAL BLADINGS DUE TO THE VARIATION OF THE REYNOLDS NUMBER.
Author: Steck, E.; Felsch, K. O.
Corporate Source: Univ Karlsruhe, Inst fuer Stroemungslehre und Stroemungsmaschinen, Karlsruhe, West Ger
Conference Title: Numerical Methods in Laminar and Turbulent Flow, Proceedings of the Third International Conference.
Conference Location: Seattle, WA, USA Conference Date: 19830808
E.I. Conference No.: 05656
Source: Numerical Methods in Laminar and Turbulent Flow, Proceedings of the International Conference. 3rd. Publ by Pineridge Press, Swansea, Wales p 500-508
Publication Year: 1983
CODEN: NMLFEV ISBN: 0-906674-22-0
Language: English

Abstract: The plane laminar flow through rotating **radial** cascades with backwardly **curved** vanes is covered. The density and viscosity of the fluid are assumed to be constant...
...the equations of motion and continuity are transformed to non-orthogonal coordinates aligned with the **blade contours** . For the solution of the boundary value problem, an implicit **difference** method was used. The operating behaviour of the impeller was investigated considering the total head...

17/3,K/2 (Item 2 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)

01614271 E.I. Monthly No: EI8412136583 E.I. Yearly No: EI84103377
Title: Calculation of the Plane Flow Through Rotating Radial Cascades.
Title: BERECHNUNG DER EBENEN STROEMUNG DURCH ROTIERENDE RADIALE SCHAUFELGITTER.
Author: Steck, E.
Source: VDI Ber 424, Hydraul Stroemungsmasch, Braunschweig, West Ger, Oct 14-16 1981. Publ by VDI Verlag, Duesseldorf, West Ger, 1981 p 167-172
Publication Year: 1981
CODEN: VDIBAP ISSN: 0083-5560
Language: GERMAN

Abstract: The plane flow of both ideal and highly viscous fluids through rotating **radial** cascades with backwards **curved** vanes is calculated. Introducing the stream function and the vorticity, the equations of motion and continuity are transformed to non-orthogonal coordinates aligned with the **blade contours** . For solving the boundary value problem an implicit **difference** method is used. The operating behavior of the impeller is investigated considering the total head...

17/3,K/3 (Item 3 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)

01338201 E.I. Monthly No: EI8303023109 E.I. Yearly No: EI83101762

Title: Calculation Method for Behavior of Rotary Radial Cascades.
Title: BERECHNUNG DES BETRIEBSVERHALTENS ROTIERENDER RADIALGITTER.
Author: Steck, Ewald
Corporate Source: Univ Karlsruhe, Ger
Source: Stroemungsmechanik und Stroemungsmaschinen n 30 1981 p 1-40
Publication Year: 1981
CODEN: SMSMC4 ISSN: 0585-427X
Language: GERMAN

Abstract: The plane flow of both ideal and highly viscous fluids through rotating **radial** cascades with arbitrarily backwards **curved** vanes is calculated. Introducing the stream function and the vorticity, the Navier-Stokes equations are transformed to nonorthogonal coordinates aligned with the **blade contours** . For solving the boundary value problem an implicit **difference** method of second order is applied. The operating behavior of the impeller is investigated considering...
?

19/3,K/1 (Item 1 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)

00708674 E.I. Monthly No: EI7804027307 E.I. Yearly No: EI78056197
Title: THREE-DIMENSIONAL ANALYSIS OF BLADE FORCE AND SOUND GENERATION FOR AN ANNULAR CASCADE IN DISTORTED FLOWS.
Author: Namba, M.
Corporate Source: Kyushu Univ, Fukuoka, Jpn
Source: Journal of Sound and Vibration v 50 n 4 Feb 22 1977 p 479-508
Publication Year: 1977
CODEN: JSVIAG ISSN: 0022-460X
Language: ENGLISH

...Abstract: the external disturbance flows that are sinusoidal in the circumferential direction, but possess a phase **skewing** in the **radial** direction. Correlations among the acoustic modes, the **blade** force modes and the flow **patterns** of the external disturbance have been investigated. When the predominant acoustic mode is subresonant, the...

...blade force amplitude is small. The generated sound power is effectively reduced by increasing the **radial** nonuniformity of the external disturbance. 6 refs.

19/3,K/2 (Item 1 from file: 95)
DIALOG(R)File 95:TEME-Technology & Management

01171914 M98010972536
Experimental investigation of passive control on unstable characteristics in axial flow fan
Liang Xizhi; Wu Hai
Chinese Acad. of Sci., China
Chinese Journal of Mechanical Engineering. English Edition, v10, n4, pp248-252, 1997
Document type: journal article Language: English
Record type: Abstract
ISSN: 1000-9345

ABSTRACT:
...or blow off the air in the tip of rotor, small-scale casing treatment (axial, **skewed** and circumferential slots), tapered or straight hole, section rig, and blade-separator etc. can have...

...length. When approximately 50 % of the blade chord is exposed, the measurements indicate a strong **radial** flow from the rotor tip into the air-separator passage. Under these conditions, the air...

...suppress the circumferential velocity of the bleeding flow and improve the performance curve of the **fan** . By modifying the **shape** of the vane, the internal flow separation could be controlled. Subsequently, further modest improvements in...

21/3,K/1 (Item 1 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)

07193899 E.I. No: EIP04538759256
Title: Adjustability improvement of face-milling spiral bevel gears by modified radial motion (MRM) method
Author: Wang, Pei-Yu; Fong, Zhang-Hua
Corporate Source: Department of Mechanical Engineering National Chung-Cheng University, Min-Hsiung, Chia Yi 621, Taiwan
Source: Mechanism and Machine Theory v 40 n 1 January 2005. p 69-89
Publication Year: 2005
CODEN: MHMTAS ISSN: 0094-114X
Language: English

...Abstract: existing lengthwise curvature modifications are primarily achieved by changing the cutter diameter or the cutter **blade** pressure angle with tilt cutter axis. However, both lengthwise curvature modifications need to rebuild the...
Identifiers: **Spiral** bevel gears; Lengthwise **curvature change** ; Adjustability; Modified **radial** motion (MRM)
?

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File 344:Chinese Patents Abs Aug 1985-2005/May
         (c) 2005 European Patent Office
File 347:JAPIO Nov 1976-2005/Jul(Updated 051102)
         (c) 2005 JPO & JAPIO
File 350:Derwent WPIX 1963-2005/UD,UM &UP=200574
         (c) 2005  Thomson Derwent
File 371:French Patents 1961-2002/BOPI 200209
         (c) 2002 INPI.  All rts. reserv.

Set     Items   Description
S1    2565582   TARGET?? OR OBJECT?? OR PACKAG??? OR INSPECT??? OR LOCAT???
               OR IDENTIFICATI??? OR VERFI? OR MATCH???
S2     187522   FAN??
S3     314060   BLADE??
S4       3345   (ALTER?????? OR CHANG???? OR DIFFERENT?? OR NONZERO?? OR N-
              ON()ZERO??)(5N)(SKEW?? OR SPIRAL??)
S5       3490   RADIAL??(5N)(CURV?? OR CURVATUR?? OR (ROUND??? OR CIRCUL??-
              ???)(5N)(BOUND???? OR EDG??? OR PERIMETER?? OR CIRCUMFEREN???)
               OR NONSTRAIGHT?? OR NON()STRAIGHT??)
S6    5082601   SHAP?? OR FIGURE?? OR CONTOUR?? OR PATTERN??
S7        846   (DISTINGUISH??? OR DIFFERENTIA????? OR DIFFER???? OR DIFFE-
              REC???? OR SEPARAT???? OR DISCRIMINAT???)(5N)BLAD???(5N)S6
S8      29680   (S2 OR S3)(5N)S6
S9         37   AU=(SILVER W? OR SILVER, W?)
S10         0   S8 AND S1 AND S4 AND S5
S11         3   S8 AND S1 AND S4
S12         0   S8 AND S4 AND S5
S13        90   S8 AND (S4 OR S5)
S14         3   S13 AND RADIAL?? AND SKEW??
S15         3   S14 NOT S11
S16         3   S7 AND (S4 OR S5)
S17         3   S16 NOT (S15 OR S11)
S18        11   S8 AND RADIAL?? AND SKEW???
S19         8   S18 NOT (S17 OR S15 OR S11)
S20         7   S19 NOT AD=20001030:20031122/PR
S21         7   S20 NOT AD=20031122:20051122/PR
S22         0   (S2 OR S3) AND S1 AND S4 AND S5
S23         0   (S2 OR S3)  AND S4 AND S5
S24         1   S9 AND (S2 OR S3)
S25         1   S24 NOT (S17 OR S15 OR S11 OR S19)
```

11/3,K/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

014011349 **Image available**
WPI Acc No: 2001-495563/200154
XRPX Acc No: N01-367126
Combustion chamber with circular ultrasonic self-excited oscillator for fuel atomizing
Patent Assignee: KOZYREV A V (KOZY-I)
Inventor: KOZYREV A V; KOZYREV V T
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
RU 2170884	C1	20010720	RU 2000106226	A	20000315	200154	B

Priority Applications (No Type Date): RU 2000106226 A 20000315
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
RU 2170884	C1			F23R-003/28	

Abstract (Basic):
... with main and secondary toroidal resonators connected acoustically and excited by air admitted through annular **skewed** nozzle **changing** to exponential acoustic horn. For opening the acoustic horn through 180 deg., use is made...

...smoothly distributed over circle of horn; these passages have segment-like cross-section and are **located** at distance no less than length of wave from horn neck; they are communicated with circular collector cavities available inside prechamber. Flame stabilizer is made in form of **fan - shaped** flat plates arranged transversely relative to flow of jets of liquid from jet passages.

11/3,K/2 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

009873701 **Image available**
WPI Acc No: 1994-153614/199419
XRPX Acc No: N94-120629
Electrostatic image copying appts using short paper conveyance path - has arm provided with LED and pivotally installed in upper body so as to facilitate attachment of photosensitive drum, and developing unit and paper supply cassette in lower body
Patent Assignee: SAMSUNG ELECTRONICS CO LTD (SMSU)
Inventor: LEE H
Number of Countries: 002 Number of Patents: 004
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
GB 2272864	A	19940601	GB 9224720	A	19921125	199419	B
DE 4239991	A1	19940601	DE 492239991	A	19921127	199423	N
GB 2272864	B	19960306	GB 9224720	A	19921125	199613	
DE 4239991	B4	20050804	DE 492239991	A	19921127	200551	N

Priority Applications (No Type Date): GB 9224720 A 19921125; DE 492239991 A 19921127
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes

GB 2272864 A 18 G03G-015/00
DE 4239991 A1 8 G03G-015/00
GB 2272864 B 1 G03G-015/00
DE 4239991 B4 G03G-015/00

...Abstract (Basic): A **fan - shaped** paper supply roller (2) and convey rollers (15,15') are **located** above a paper pressing plate (20). One of the convey rollers (15') having the larger...

...The rollers rotate at different speeds so as to produce minute speed differences due to **different** driving forces, thus aligning **skewed** sheets of paper. A friction pad (21) under the first convey roller (15') separates individual...

...Abstract (Equivalent): detachably installed in said lower body; a paper supply roller and a paper convey roller **located** on the same axis between said developing device and paper supply cassette; and image fixing...

11/3,K/3 (Item 3 from file: 350)
DIALOG(R)File 350:Derwent WPIX

004318221
WPI Acc No: 1985-145099/198524
XRAM Acc No: C85-063456
Continuous or batch materials mixer - with rotating blades **and additional mixing elements** shaped **as archimedean spirals**
Patent Assignee: CHILD FOOD PRODUCT (CHIL-R)
Inventor: FESHCHENKO N S; KIRZNER V E; VAVILIN V S
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
SU 1126317	A	19841130	SU 3609633	A	19830727	198524	B

Priority Applications (No Type Date): SU 3609633 A 19830727
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
SU 1126317	A		3		

... with rotating blades **and additional mixing elements** shaped **as archimedean spirals**

...Abstract (Basic): central (6) and peripheral (7) plates, which are fixed on helical line an arms (8) **located** in intersecting planes. To intensify mixing by elimination of static zones in the mixer, it has additional mixing elements (9) in the shape of Archimedean **spirals alternating** with the mixing blades. Above the plates (6,7) are outer plates (10), in the...

?

15/3,K/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX

011230795 **Image available**
WPI Acc No: 1997-208698/199719
XRPX Acc No: N97-172345
Propeller with skew **e.g. for ships, power plant - has set of propeller blades with** circular **arch sloped** edges , **which protrude** radially **from boss part**
Patent Assignee: MITSUBISHI JUKOGYO KK (MITO)
Number of Countries: 001 Number of Patents: 002
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
JP 9058589	A	19970304	JP 95231964	A	19950817	199719	B
JP 3510395	B2	20040329	JP 95231964	A	19950817	200423	

Priority Applications (No Type Date): JP 95231964 A 19950817
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 9058589	A		3	B63H-001/26	
JP 3510395	B2		3	B63H-001/26	Previous Publ. patent JP 9058589

Propeller with skew **e.g. for ships, power plant...**
...has set of propeller blades with circular **arch sloped** edges , **which protrude** radially **from boss part**

...Abstract (Basic): The propeller has a set of blades (1a), installed **radially** protruding from a boss part (4). The edge (2a) of the **blade** has a circular arc **shape** .
...

...A **skew** is individually fixed from joint to tip of the blade, along the rotation direction and
...Title Terms: **SKEW** ;

15/3,K/2 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX

009744047 **Image available**
WPI Acc No: 1994-023898/199403
XRPX Acc No: N94-018535
Production of spiral cutting blades - employs rolling of annular semi between skew **rollers with in-line sharpening and surface hardening of edge**
Patent Assignee: UKR AGRIC ACAD (UAGR)
Inventor: IZAAK T YA; OBUKHOVA V S; PILIPAKA S F
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
SU 1784388	A1	19921230	SU 4683225	A	19890427	199403	B

Priority Applications (No Type Date): SU 4683225 A 19890427
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
SU 1784388	A1		4	B21H-007/10	

... employs rolling of annular semi between skew **rollers with in-line**

sharpening and surface hardening of edge

...Abstract (Basic): A stand for forming of spiral- **shaped** cutting **blades** by rolling a flat ring semi of constant radius between three staggered deforming rolls behind...

...4) are arranged so as to produce bending along a constant angle (alpha) in the **radial** direction. The axes of the rollers **alternate** between the advancing stock at **skew** angles to provide increasing deformation. An abrasive wheel (5) sharpens the edge of the spiral...

...Title Terms: **SKEW** ;

15/3,K/3 (Item 3 from file: 350)

DIALOG(R)File 350:Derwent WPIX

009425405 **Image available**

WPI Acc No: 1993-118921/199315

XRPX Acc No: N93-090711

One-piece axial flow fan for cooling modules of automotive vehicles - has fan supporting blades with crests joining circular band concentric with and outwardly spaced from fan hub

Patent Assignee: SIEMENS AUTOMOTIVE LTD (SIEI); SIEMENS ELECTRIC LTD (SIEI)

Inventor: GALLIVAN W P; PERIYATHAMBY H K

Number of Countries: 005 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
EP 536662	A1	19930414	EP 92116931	A	19921002	199315	B
US 5244347	A	19930914	US 91775163	A	19911011	199338	
EP 536662	B1	19951220	EP 92116931	A	19921002	199604	
DE 69206943	E	19960201	DE 606943	A	19921002	199610	
			EP 92116931	A	19921002		

Priority Applications (No Type Date): US 91775163 A 19911011

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 536662	A1	E	9	F04D-029/32	
Designated States (Regional): DE FR GB IT					
US 5244347	A		6	F04D-029/32	
EP 536662	B1	E	11	F04D-029/32	
Designated States (Regional): DE FR GB IT					
DE 69206943	E			F04D-029/32	Based on patent EP 536662

...Abstract (Basic): The fan (10) comprises a hub (12), rotatable about an axis (14), forwardly **skewed** , airfoil **shaped** , **fan blades** (16), distributed circumferentially around the hub and extending both **radially** and axially away from the hub...

...root (16R) joining with the hub, and a circular band (18) concentric with and spaced **radially** outwardly from the hub. A crest on the blades joins the band...

...Abstract (Equivalent): comprising a hub (12) that is rotatable about an axis (14), a plurality of forwardly **skewed** , airfoil- **shaped** **fan blades** (16) distributed circumferentially around said hub and extending both **radially** and axially away from said hub, a circular band (18) that is concentric with and spaced **radially** outwardly from said hub, each blade having a crest joining with said band, and characterised...

...Abstract (Equivalent): fan has an outer circular band that is spaced

axially rearwardly of the hub. Forwardly **skewed** blades extend between the band and hub. Each blade has a **radially** intermediate portion that has reverse **curvatures** , namely a **radially** inner section curving about a location that is axially rearwardly of the blade, and a **radially** outer section curving about a location that is axially forwardly of the blade...

...having a central mount for an electric motor that drives the fan. The shroud has **radial** members that extend from the edge of the shroud aperture to the hub and that...

17/3,K/1 (Item 1 from file: 347)
DIALOG(R)File 347:JAPIO

06183643 **Image available**
FLUID MACHINE

PUB. NO.: 11-125193 [JP 11125193 A]
PUBLISHED: May 11, 1999 (19990511)
INVENTOR(s): HAYANO MAKOTO
SAKATA KANJI
MORISHIMA AKIRA
OZU MASAO
APPLICANT(s): TOSHIBA CORP
APPL. NO.: 09-289847 [JP 97289847]
FILED: October 22, 1997 (19971022)

ABSTRACT

... to a cylinder 23 by means of the electrically driven mechanism part 7, and allows **spiral shaped blades** 39 **different** in **spiral** pitch to be formed into an operation chamber, are disposed on the upper and lower...

17/3,K/2 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX

015391771 **Image available**
WPI Acc No: 2003-453601/200343
XRPX Acc No: N03-361110
Air blower impeller of air conditioner, has several wing blades each having radius of curvature increased from front edge to trailing edge and with concave curve shape at windward side
Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (MATU); MATSUSHITA DENKI SANGYO KK (MATU)
Number of Countries: 002 Number of Patents: 002
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
JP 2003148395	A	20030521	JP 2001343941	A	20011109	200343	B
CN 1417481	A	20030514	CN 2002149989	A	20021107	200355	

Priority Applications (No Type Date): JP 2001343941 A 20011109
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 2003148395	A		5	F04D-029/38	
CN 1417481	A			F04D-029/38	

Abstract (Basic):
... provided at the circumference of a hub (3). The cross-section of wing blades along **radial** direction has concave **curve** shape at windward side and a convex curve shape at hub side. The radius of...
... The **figure** shows the cross-sectional view of wing **blade** along **different** radial direction. (Drawing includes non-English language text...

17/3,K/3 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX

010061705 **Image available**
WPI Acc No: 1994-329416/199441
XRAM Acc No: C94-149448

Rubber mixing apparatus - includes lasing, rotating shaft, and cylindrical rotating cutter, lubricating nozzle

Patent Assignee: MITSUBISHI JUKOGYO KK (MITO)
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
JP 6254844	A	19940913	JP 9341331	A	19930302	199441	B

Priority Applications (No Type Date): JP 9341331 A 19930302
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 6254844	A		3	B29B-007/80	

...Abstract (Basic): on the rotating shaft with an inclination to the guide cylinder, and pref. having a **spiral shape** with its **blades** having **different** heights and saw-tooth arrangement, (4) pref. a lubricating nozzle provided on the inlet of...

?

21/3,K/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX

010988889 **Image available**
WPI Acc No: 1996-485838/199648
XRPX Acc No: N96-409227
Axial flow fan for motor vehicle heating/cooling systems - having skewed **blade tip regions symmetrically attached hub to improve fan performance**
Patent Assignee: VALEO THERMIQUE MOTEUR (VALO)
Inventor: ALIZADEH A
Number of Countries: 022 Number of Patents: 010
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
WO 9633345	A1	19961024	WO 96EP1660	A	19960418	199648	B
EP 766791	A1	19970409	EP 96913518	A	19960418	199719	
			WO 96EP1660	A	19960418		
US 5616004	A	19970401	US 95425991	A	19950419	199719	
JP 10501867	W	19980217	JP 96531491	A	19960418	199817	
			WO 96EP1660	A	19960418		
MX 9606657	A1	19970301	MX 966657	A	19961218	199820	
KR 97704115	A	19970809	WO 96EP1660	A	19960418	199836	
			KR 96707239	A	19961217		
MX 190722	B	19981214	MX 966657	A	19961218	200045	
CN 1150834	A	19970528	CN 96190358	A	19960418	200127	
EP 766791	B1	20020619	EP 96913518	A	19960418	200240	
			WO 96EP1660	A	19960418		
DE 69621890	E	20020725	DE 621890	A	19960418	200256	
			EP 96913518	A	19960418		
			WO 96EP1660	A	19960418		

Priority Applications (No Type Date): US 95425991 A 19950419
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 9633345	A1	E	29	F04D-029/38	
Designated States (National): CN JP KR MX					
Designated States (Regional): AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE					
EP 766791	A1	E			Based on patent WO 9633345
Designated States (Regional): DE ES FR GB IT					
US 5616004	A		25	F04D-029/30	
JP 10501867	W		28		Based on patent WO 9633345
KR 97704115	A				Based on patent WO 9633345
MX 190722	B			F04D-029/030	
CN 1150834	A			F04D-029/38	
EP 766791	B1	E		F04D-029/38	Based on patent WO 9633345
Designated States (Regional): DE ES FR GB IT					
DE 69621890	E			F04D-029/38	Based on patent EP 766791
					Based on patent WO 9633345

... **having** skewed **blade tip regions symmetrically attached hub to improve fan performance**

...Abstract (Basic): to hub (2) with each blade having leading (24) and trailing (25) edges and a **radially** inner region (20) extending to a tip region. The leading edge tip region (21) is...

...so as to be relatively further from the plane than the leading edge of the **radially** inner region. The sweep of the tip region may be neutral at the medial line...

...Abstract (Equivalent): the axis of rotation, each blade having a leading edge, a trailing edge and a **radially** inner region extending to a tip region, comprising a leading portion of the tip region swept relative to the **radially** inner region in a first direction with respect to the back plane that is perpendicular...

...of the fan and a trailing portion of the tip region swept relative to the **radially** inner region in a second opposite direction with respect to said plane, wherein the **radially** inner region has an arc **shaped** cross-section, taken along a **blade** circumferential line, such that the bending ratio, defined as ratio of the maximum deviation from the chord at said circumferential line to the length of the chord, decreases over the **radially** innermost portion of the **radially** inner region of each blade, and then increases over a **radially** adjacent portion of the **radially** inner region...
...Title Terms: **SKEW** ;

21/3,K/2 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX

009667569 **Image available**
WPI Acc No: 1993-361120/199346
Related WPI Acc No: 1999-256694
XRPX Acc No: N93-278787

One piece axial flow fan for use in cooling modules of motor vehicles - has circular outer band coacting with surrounding shroud structure of two parts cooperatively defining radially **inwards open groove receiving flange of fan band to form labyrinth seal**

Patent Assignee: SIEMENS CANADA LTD (SIEI); SIEMENS AUTOMOTIVE LTD (SIEI); SIEMENS ELECTRIC LTD (SIEI); SIEMENS VDO AUTOMOTIVE INC (SIEI)
Inventor: GALLIVAN W P; JOSEPH A S; PERIYATHAMBY H K
Number of Countries: 006 Number of Patents: 006
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 569863	A1	19931118	EP 93107390	A	19930506	199346 B
US 5326225	A	19940705	US 92884968	A	19920515	199426
			US 9391074	A	19930712	
EP 569863	B1	20000329	EP 93107390	A	19930506	200020
			EP 98124305	A	19930506	
DE 69328212	E	20000504	DE 93628212	A	19930506	200029
			EP 93107390	A	19930506	
JP 3481970	B2	20031222	JP 93136981	A	19930517	200401
EP 913584	B1	20050720	EP 93107390	A	19930506	200547
			EP 98124305	A	19930506	

Priority Applications (No Type Date): US 92884968 A 19920515; US 9391074 A 19930712
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 569863	A1	E	9	F04D-029/32	
Designated States (Regional): DE FR GB IT					
US 5326225	A		9	F04D-029/38	Cont of application US 92884968
EP 569863	B1	E		F04D-029/32	Related to application EP 98124305
					Related to patent EP 913584
Designated States (Regional): DE FR GB IT					
DE 69328212	E			F04D-029/32	Based on patent EP 569863
JP 3481970	B2		8	F04D-029/38	Previous Publ. patent JP 6147194
EP 913584	B1	E		F04D-029/16	Div ex application EP 93107390

Div ex patent EP 569863
Designated States (Regional): DE FR GB IT

... has circular outer band coacting with surrounding shroud structure of two parts cooperatively defining radially **inwards open groove receiving flange of fan band to form labyrinth seal**

...Abstract (Basic): The fan comprises a hub rotatable about an axis with several **skewed** , airfoil **shaped fan blades** distributed circumferentially around the hub. They extend both **radially** and axially away from the hub. Each blade has a root joining with the hub, and a circular band that is concentric with it spaced **radially** outwards from the hub...

...which is perpendicular to the axis. The groove has three walls, two axially spaced apart **radial** walls, and an axial wall...
...Abstract (Equivalent): form a labyrinth air seal. The shroud structure comprises two parts that cooperatively define a **radially** inwardly open groove within which a flange of the fan band is received to form ...
...Title Terms: **RADIAL** ;

21/3,K/3 (Item 3 from file: 350)
DIALOG(R)File 350:Derwent WPIX

009205648 **Image available**
WPI Acc No: 1992-333069/199241
XRPX Acc No: N92-254206
Burner for gas turbine drive unit with at least one fuel nozzle - incorporates torsion device for combustion air feed which is regulatable dependent on load
Patent Assignee: MTU MUENCHEN GMBH (MOTU)
Inventor: BERGER J; SIMON B
Number of Countries: 017 Number of Patents: 008
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
DE 4110507	A	19921001	DE 4110507	A	19910330	199241	B
WO 9217736	A1	19921015	WO 92EP425	A	19920227	199244	
EP 577618	A1	19940112	EP 92905564	A	19920227	199402	
			WO 92EP425	A	19920227		
DE 4110507	C2	19940407	DE 4110507	A	19910330	199413	
JP 6507231	W	19940811	JP 92504950	A	19920227	199436	
			WO 92EP425	A	19920227		
EP 577618	B1	19950517	EP 92905564	A	19920227	199524	
			WO 92EP425	A	19920227		
US 5490378	A	19960213	WO 92EP425	A	19920227	199612	
			US 93122493	A	19931207		
JP 3150971	B2	20010326	JP 92504950	A	19920227	200126	
			WO 92EP425	A	19920227		

Priority Applications (No Type Date): DE 4110507 A 19910330
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
DE 4110507	A		11	F23R-003/14	
WO 9217736	A1	G	25	F23C-007/00	
Designated States (National): JP US					
Designated States (Regional): AT BE CH DE DK ES FR GB GR IT LU MC NL SE					
EP 577618	A1	G	25	F23C-007/00	Based on patent WO 9217736

Designated States (Regional): CH DE FR GB IT LI SE
DE 4110507 C2 12 F23R-003/26
JP 6507231 W F23R-003/26 Based on patent WO 9217736
EP 577618 B1 G 16 F23C-007/00 Based on patent WO 9217736
Designated States (Regional): CH FR GB IT LI SE
US 5490378 A 12 F23R-003/14 Based on patent WO 9217736
JP 3150971 B2 9 F23R-003/26 Previous Publ. patent JP 6507231
Based on patent WO 9217736

...Abstract (Basic): In the **radial** /tangential holes (3) between **radial** wall parts of the ring body (2) coaxial with the nozzle engage fingers (5) of...

...section with equal dimensions and equal peripheral distribution. The holes (3) are formed in wedge- **shaped** profiled end parts or **blade** profiles of the ring section...
...Abstract (Equivalent): In the **radial** /tangential holes (3) between **radial** wall parts of the ring body (2) coaxial with the nozzle engage fingers (5) of...

...section with equal dimensions and equal peripheral distribution. The holes (3) are formed in wedge- **shaped** profiled end parts or **blade** profiles of the ring section...

...is provided, between profiles (6) of an annular member (2) coaxial with the nozzle, with **radial** /tangential apertures (3) having a constant cross-section over their whole length which are distributed...
...Abstract (Equivalent): a ring-shaped swirling device (7) coaxially arranged **radially** outward and downstream from a longitudinal axis (13) through said fuel nozzle (9), said swirling...

...through said swirling device from the outer to the inner annular surface thereof in a **skewed** direction with respect to a **radial** from said longitudinal axis (13) and having same rectangular cross-sections along their entire length...

21/3,K/4 (Item 4 from file: 350)
DIALOG(R)File 350:Derwent WPIX

008977891 **Image available**
WPI Acc No: 1992-105160/199214
XRPX Acc No: N92-078778
Propeller blade runner - has leading edges of bladleaning in direction of runner rotation
Patent Assignee: DO H (DOHH-I); GENERAL ELECTRIC CANADA INC (GENE)
Inventor: DO H
Number of Countries: 003 Number of Patents: 005
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
CA 2020765	A	19920110				199214	B
CN 1058256	A	19920129	CN 91104596	A	19910709	199240	
US 5226804	A	19930713	US 91713227	A	19910611	199329	
CN 1026515	C	19941109	CN 91104596	A	19910709	199544	
CA 2020765	C	20000222	CA 2020765	A	19900709	200029	

Priority Applications (No Type Date): CA 2020765 A 19900709
Patent Details:
Patent No Kind Lan Pg Main IPC Filing Notes

```
CA 2020765    A     12
CA 2020765    C  E     F01D-005/14
US 5226804    A      6 B63H-001/02
CN 1058256    A       F03B-003/12
CN 1026515    C       F03B-003/12
```

...Abstract (Basic): The **shape** of each **blade** is such that a **radial** line drawn from the axis of the propeller through the point where the leading edge...

...Abstract (Equivalent): each blade of the propeller type runner has a leading edge which has a forward **skew** to produce a lean in the direction of rotation of said runner...

...The forward **skew** serves to reduce the cavitation effects on the runner by reducing localised water pressure gradients...

21/3,K/5 (Item 5 from file: 350)

DIALOG(R)File 350:Derwent WPIX
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008211683 **Image available**
WPI Acc No: 1990-098684/199013
XRPX Acc No: N90-076315

Axial flow ring fan - has blades, forwardly skewed , **extending** radially **between hub and ring, having sinusoidal shape**

Patent Assignee: SIEMENS AUTOMOTIVE LTD (SIEI); SIEMENS AG (SIEI); SIEMENS-BENDIX AUTO (SIEI)
Inventor: BRACKETT S E; CHARLES H N
Number of Countries: 016 Number of Patents: 007
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 4900229	A	19900213	US 89359241	A	19890530	199013	B
WO 9015254	A	19901213				199101	
EP 474685	A	19920318	EP 90908230	A	19900529	199212	
JP 4503392	W	19920618	JP 90507711	A	19900529	199231	
			WO 90EP856	A	19900529		
CA 1324995	C	19931207	CA 608454	A	19890816	199404	
EP 474685	B1	19941214	EP 90908230	A	19900529	199503	
			WO 90EP856	A	19900529		
DE 69015184	E	19950126	DE 615184	A	19900529	199509	
			EP 90908230	A	19900529		
			WO 90EP856	A	19900529		

Priority Applications (No Type Date): US 89359241 A 19890530
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 4900229	A		7		
WO 9015254	A				
Designated States (National): JP KR					
Designated States (Regional): AT BE CH DE DK ES FR GB IT LU NL SE					
EP 474685	A				
Designated States (Regional): DE ES FR GB IT SE					
JP 4503392	W			F04D-029/38	Based on patent WO 9015254
EP 474685	B1	E	8	F04D-029/32	Based on patent WO 9015254
Designated States (Regional): DE ES FR GB IT SE					
DE 69015184	E			F04D-029/32	Based on patent EP 474685
					Based on patent WO 9015254
CA 1324995	C			F04D-029/38	

... **has blades, forwardly** skewed , **extending** radially **between hub and**

ring, having sinusoidal shape

...Abstract (Basic): central hub (22), an outer ring (24), and a number of blades (26) that extend **radially** between hub and ring. The blades are forwardly **skewed** in the direction of **fan** rotation. The **shape** of a leading edge (28) of each blade is somewhat sinusoidal. It comprises an axially depressed region (32) that is **radially** inwardly of an axially raised region (34...
...Abstract (Equivalent): Axial flow ring fan that has a plurality of forwardly **skewed** blades extending between a central hub and an outer ring, characterised in that each blade...
...Title Terms: **SKEW** ;

21/3,K/6 (Item 6 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

007788405 **Image available**
WPI Acc No: 1989-053517/198907
XRPX Acc No: N89-040813
Adjustable dia screw propeller - has hub with spindles synchronously turned in common direction and attached to respective blades
Patent Assignee: BIRD-JOHNSON CO (BIRD-N)
Inventor: NORTON J A
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 4801243	A	19890131	US 87120247	A	19871103	198907	B

Priority Applications (No Type Date): US 85792064 A 19851228; US 87120247 A 19871103
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 4801243	A		7		

...Abstract (Basic): A hub has spindles each mounted in the hub for rotation about an axis disposed **radially** of the hub axis. A mechanism synchronously turns the spindles in a common direction...
...Propeller **blades** have a fixed pitch **contour** and a **skew** in the range of 60 to 90 deg. and are attached to respective ones of...

21/3,K/7 (Item 7 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

001868686
WPI Acc No: 1977-89724Y/197750
Rotary cutter with flexibly mounted blades - cooperating in skewed **pairs to form shaped cuts, is useful for cut-resistant, thin plastics or fibrous material**
Patent Assignee: PROCTER & GAMBLE CO (PROC)
Number of Countries: 003 Number of Patents: 004
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 4061063	A	19771206				197750	B
DE 2756911	A	19780706				197828	
CA 1069818	A	19800115				198007	
DE 2756911	C	19871105				198744	

Priority Applications (No Type Date): US 76754421 A 19761227

... cooperating in skewed **pairs to form shaped cuts, is useful for cut-resistant, thin plastics or fibrous material**

...Abstract (Basic): at least elastically mounted on rotatable shafts. The blades have equal length cutting edges equally **radially** spaced from their respective shafts. The axes of the rotatable shafts lie in intersecting planes so that the cooperating blades are **skewed** relative to each other by 1 to 6 degrees and thus have a single cutting point contact. The **blades** are **shaped** to produce desired **shape** cuts and are driven in timed relationship...

...Title Terms: **SKEW** ;

?

25/3,K/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX

014132411 **Image available**
WPI Acc No: 2001-616622/200171
XRPX Acc No: N01-459908
Kitchen shears has more than one curved cutting blade **that cuts against the edges of a central rib that also supports wing shaped brackets suited to scoop from a bowl food to be cut**
Patent Assignee: WENCO LLC (WENC-N); CHAN E (CHAN-I); CHORPASH R (CHOR-I); SILVER M I (SILV-I); SILVER W L (SILV-I); SPOOL I (SPOO-I)
Inventor: CHAN E; CHORPASH R; SILVER M I; **SILVER W** ; SPOOL I; **SILVER W L**
Number of Countries: 092 Number of Patents: 014
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200174550	A2	20011011	WO 2001US10853	A	20010404	200171 B
AU 200151280	A	20011015	AU 200151280	A	20010404	200209
US 20020020067	A1	20020221	US 2000194372	P	20000404	200221
			US 2001824786	A	20010404	
US 6453560	B1	20020924	US 2000194372	P	20000404	200266
			US 2001824786	A	20010404	
BR 200109778	A	20030121	BR 20019778	A	20010404	200309
			WO 2001US10853	A	20010404	
EP 1268139	A2	20030102	EP 2001924642	A	20010404	200310
			WO 2001US10853	A	20010404	
KR 2002087122	A	20021121	KR 2002713261	A	20021004	200320
CA 2434428	A1	20011011	CA 2392651	A	20010404	200360
			CA 2434428	A	20010404	
CA 2392651	C	20040113	CA 2392651	A	20010404	200412
			WO 2001US10853	A	20010404	
ZA 200207426	A	20040225	ZA 20027426	A	20020916	200419
ES 2200730	T1	20040316	EP 2001924642	A	20010404	200424
CA 2434428	C	20040608	CA 2392651	A	20010404	200438
			CA 2434428	A	20010404	
EP 1268139	B1	20041013	EP 2001924642	A	20010404	200467
			WO 2001US10853	A	20010404	
DE 60106408	E	20041118	DE 106408	A	20010404	200476
			EP 2001924642	A	20010404	
			WO 2001US10853	A	20010404	

Priority Applications (No Type Date): US 2000194372 P 20000404; US 2001824786 A 20010404
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 200174550	A2	E	55	B26B-013/00	
	Designated States (National): AE AG AL AM AU AZ BA BB BG BR BY BZ CA CN CR CU CZ DM DZ EE FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LV MA MD MG MK MN MW MX MZ NO NZ PL RO RU SD SG SI SK SL TJ TM TT TZ UA UG UZ VN YU ZA ZW				
	Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR				
AU 200151280	A			B26B-013/00	Based on patent WO 200174550
US 20020020067	A1			B26B-013/00	Provisional application US 2000194372
US 6453560	B1			B26B-013/06	Provisional application US 2000194372
BR 200109778	A			B26B-013/00	Based on patent WO 200174550
EP 1268139	A2	E		B26B-013/00	Based on patent WO 200174550
	Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR				
KR 2002087122	A			B26B-013/00	

CA 2434428 A1 E B26B-013/02 Div ex application CA 2392651
CA 2392651 C E B26B-013/00 Based on patent WO 200174550
ZA 200207426 A 85 B26B-000/00
ES 2200730 T1 B26B-013/00 Based on patent EP 1268139
CA 2434428 C E B26B-013/02 Div ex application CA 2392651
EP 1268139 B1 E B26B-013/00 Based on patent WO 200174550
Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR
DE 60106408 E B26B-013/00 Based on patent EP 1268139
Based on patent WO 200174550

Kitchen shears has more than one curved cutting blade **that cuts against the edges of a central rib that also supports wing shaped brackets...**

...Inventor: **SILVER W** ...

... **SILVER W L**

Abstract (Basic):

... The shears have a pair of curved **blades** (110) that pivot around a pin (101) together with a curved rib (120) that has cutting edges (122 and 126) to interact with the **blades** . Extending out from the sides of the rib are two wings (124) that take the...

... a) Hand operated shears with several pairs of **blades** curved toward each other...

...b) Hand operated shears with several **blades** and wings extending out from the outer **blades**

...

...when in a bowl and assist to grip the food in conjunction with the curved blades until the food is cut...

...Cutting **blades** (110

...Title Terms: **BLADE** ;

?

File 9:Business & Industry(R) Jul/1994-2005/Nov 21
(c) 2005 The Gale Group
File 15:ABI/Inform(R) 1971-2005/Nov 22
(c) 2005 ProQuest Info&Learning
File 16:Gale Group PROMT(R) 1990-2005/Nov 22
(c) 2005 The Gale Group
File 20:Dialog Global Reporter 1997-2005/Nov 22
(c) 2005 Dialog
File 47:Gale Group Magazine DB(TM) 1959-2005/Nov 22
(c) 2005 The Gale group
File 75:TGG Management Contents(R) 86-2005/Nov W2
(c) 2005 The Gale Group
File 80:TGG Aerospace/Def.Mkts(R) 1982-2005/Nov 21
(c) 2005 The Gale Group
File 88:Gale Group Business A.R.T.S. 1976-2005/Nov 22
(c) 2005 The Gale Group
File 98:General Sci Abs/Full-Text 1984-2004/Dec
(c) 2005 The HW Wilson Co.
File 112:UBM Industry News 1998-2004/Jan 27
(c) 2004 United Business Media
File 141:Readers Guide 1983-2004/Dec
(c) 2005 The HW Wilson Co
File 148:Gale Group Trade & Industry DB 1976-2005/Nov 22
(c)2005 The Gale Group
File 160:Gale Group PROMT(R) 1972-1989
(c) 1999 The Gale Group
File 275:Gale Group Computer DB(TM) 1983-2005/Nov 21
(c) 2005 The Gale Group
File 264:DIALOG Defense Newsletters 1989-2005/Nov 21
(c) 2005 Dialog
File 369:New Scientist 1994-2005/Jul W4
(c) 2005 Reed Business Information Ltd.
File 370:Science 1996-1999/Jul W3
(c) 1999 AAAS
File 484:Periodical Abs Plustext 1986-2005/Nov W2
(c) 2005 ProQuest
File 553:Wilson Bus. Abs. FullText 1982-2004/Dec
(c) 2005 The HW Wilson Co
File 570:Gale Group MARS(R) 1984-2005/Nov 21
(c) 2005 The Gale Group
File 608:KR/T Bus.News. 1992-2005/Nov 22
(c)2005 Knight Ridder/Tribune Bus News
File 620:EIU:Viewswire 2005/Oct 19
(c) 2005 Economist Intelligence Unit
File 613:PR Newswire 1999-2005/Nov 22
(c) 2005 PR Newswire Association Inc
File 621:Gale Group New Prod.Annou.(R) 1985-2005/Nov 22
(c) 2005 The Gale Group
File 623:Business Week 1985-2005/Nov 17
(c) 2005 The McGraw-Hill Companies Inc
File 624:McGraw-Hill Publications 1985-2005/Nov 21
(c) 2005 McGraw-Hill Co. Inc
File 634:San Jose Mercury Jun 1985-2005/Nov 20
(c) 2005 San Jose Mercury News
File 635:Business Dateline(R) 1985-2005/Nov 22
(c) 2005 ProQuest Info&Learning
File 636:Gale Group Newsletter DB(TM) 1987-2005/Nov 22
(c) 2005 The Gale Group
File 647:CMP Computer Fulltext 1988-2005/Nov W2
(c) 2005 CMP Media, LLC
File 696:DIALOG Telecom. Newsletters 1995-2005/Nov 22

```
         (c) 2005 Dialog
File 674:Computer News Fulltext 1989-2005/Oct W2
         (c) 2005 IDG Communications
File 810:Business Wire 1986-1999/Feb 28
         (c) 1999 Business Wire
File 813:PR Newswire 1987-1999/Apr 30
         (c) 1999 PR Newswire Association Inc
File 587:Jane`s Defense&Aerospace 2005/Nov W2
         (c) 2005 Jane`s Information Group

Set     Items   Description
S1   22924538   TARGET?? OR OBJECT?? OR PACKAG??? OR INSPECT??? OR LOCAT???
             OR IDENTIFICATI??? OR VERFI? OR MATCH???
S2    2163108   FAN??
S3     283432   BLADE??
S4       5292   (ALTER?????? OR CHANG???? OR DIFFERENT?? OR NONZERO?? OR N-
             ON()ZERO??)(5N)(SKEW?? OR SPIRAL??)
S5        420   RADIAL??(5N)(CURV?? OR CURVATUR?? OR (ROUND??? OR CIRCUL??-
             ???)(5N)(BOUND???? OR EDG??? OR PERIMETER?? OR CIRCUMFEREN???)
              OR NONSTRAIGHT?? OR NON()STRAIGHT??)
S6    8952518   SHAP?? OR FIGURE?? OR CONTOUR?? OR PATTERN??
S7        274   (DISTINGUISH??? OR DIFFERENTIA????? OR DIFFER???? OR DIFFE-
             REC???? OR SEPARAT???? OR DISCRIMINAT???)(5N)BLAD???(5N)S6
S8      17669   (S2 OR S3)(5N)S6
S9         53   AU=(SILVER W? OR SILVER, W?)
S10         0   S8(S)S1(S)S4(S)S5
S11         0   S8(S)S1(S)S4
S12         0   S8(S)S4(S)S5
S13         6   S8(S)(S4 OR S5)
S14         6   RD (unique items)
S15         0   S7(S)(S4 OR S5)
S16         0   S7(S)SKEW???(S)RADIAL???
S17         0   S8(S)SKEW???(S)RADIAL??
S18         0   (S2 OR S3)(S)S1(S)S4(S)S5
S19         0   (S2 OR S3)(S)S4(S)S5
S20         2   S9 AND (S2 OR S3)
S21         1   RD (unique items)
S22         2   S7 AND SKEW??? AND RADIAL???
S23         2   RD (unique items)
S24         2   S23 NOT (S20 OR S13)
```

14/3,K/1 (Item 1 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2005 The Gale Group. All rts. reserv.

13505026 SUPPLIER NUMBER: 75262502 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Understanding fan vibration and imbalance.
Gutzwiller, Les; Kuli, Thomas J.
Plant Engineering, 55, 5, 38
May, 2001
ISSN: 0032-082X LANGUAGE: English RECORD TYPE: Fulltext
WORD COUNT: 1810 LINE COUNT: 00166

... during each start, the fan rotor is nearly impossible to balance. Solid blade shapes (backward- **curved** , backward-inclined or **radial** -blade fan designs) are usually selected for centrifugal fans in extremely dirty or wet environments...

14/3,K/2 (Item 2 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2005 The Gale Group. All rts. reserv.

07711505 SUPPLIER NUMBER: 16630348 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Understanding centrifugal fans.
Gustafson, Tom
Plant Engineering, v49, n2, p50(3)
Feb 6, 1995
ISSN: 0032-082X LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 2029 LINE COUNT: 00161

...ABSTRACT: radial or backward curved. Each has different applications and operating ranges. To keep a centrifugal **fan** in optimum **shape** , an understanding of overload, stall and unstable operating range conditions is crucial prior to installation.

14/3,K/3 (Item 3 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2005 The Gale Group. All rts. reserv.

04608507 SUPPLIER NUMBER: 09148809 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Evaluating ventilating fans.
Katzel, Jeanine
Plant Engineering, v44, n12, p44(7)
June 21, 1990
ISSN: 0032-082X LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT
WORD COUNT: 3058 LINE COUNT: 00243

... important. * The forward-curved blade moves large volumes of air at relatively low speeds. The **fan** has small, cup- **shaped** **blades** curved forward in the direction of the wheel's rotation. Often called a squirrel-cage...

14/3,K/4 (Item 4 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2005 The Gale Group. All rts. reserv.

02836634 SUPPLIER NUMBER: 04147863 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Using inducers to improve high-speed pump performance.

Cameron, Lee; Maceyka, Thomas D.
Plant Engineering, v40, p41(3)
Feb 27, 1986
ISSN: 0032-082X LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT
WORD COUNT: 1398 LINE COUNT: 00112

... the normal number of blades are used, a rising curve will result with a radial- **blade** impeller. **Figure** 5 shows the rising curve obtained from test data using a two-stage pump.
This...

14/3,K/5 (Item 1 from file: 160)
DIALOG(R)File 160:Gale Group PROMT(R)

00886462
Guidelines for the selection of industrial fans, their applications, operation and maintenance are discussed by JE Thompson and CJ Trickler of New York Blower Co.
Chemical Engineering March 21, 1983 p. 48-631

The **shape** and setting of a **fan** 's wheel blades primarily determine its performance characteristics. Fans used today can be classified into 5 groups in order of decreasing efficiency: backward inclined, axial, forward- **curved** , **radial** -tip and **radial** -blade. Fan selection mainly depends on the flow and pressure performance required for the application ...

14/3,K/6 (Item 1 from file: 484)
DIALOG(R)File 484:Periodical Abs Plustext

06804647 SUPPLIER NUMBER: 850223701
Ancient sand-rich submarine fans: depositional systems, models, identification, and analysis
Mattern, F
Earth - Science Reviews (PESR), v70 n3/4, p167-202
May 2005
ISSN: 0012-8252 JOURNAL CODE: PESR
DOCUMENT TYPE: Feature
LANGUAGE: English RECORD TYPE: Abstract

ABSTRACT: Sand-rich submarine fans are **radial** or **curved** in plan view depending on the slope of the basin floor. They occur isolated or...

...are fed more or less directly by regional rivers. The type of ancient fan system (**radial** , **curved** , isolated, coalescing) may be identified through paleocurrent map plots, facies map sketches, recognition of lateral ...

...outer fan successions through bed correlation tests which reflect their different stratigraphic architectures and bedding **patterns** . Bedding in outer **fan** deposits (lobes) is relatively simple, parallel, and regular. The lateral bed continuity is relatively high...
?

21/3,K/1 (Item 1 from file: 47)
DIALOG(R)File 47:Gale Group Magazine DB(TM)

06007809 SUPPLIER NUMBER: 70432366 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Interactions between Aboveground and Belowground Biodiversity in Terrestrial Ecosystems: Patterns, Mechanisms, and Feed backs.
HOOPER, DAVID U.; BIGNELL, DAVID E.; BROWN, VALERIE K.; BRUSSAARD, LIJBERT; DANGERFIELD, J. MARK; WALL, DIANA H.; WARDLE, DAVID A.; COLEMAN, DAVID C.; GILLER, KEN E.; LAVELLE, PATRICK; VAN DER PUTTEN, WIM H.; DE RUITER, PETER C.; RUSEK, JOSEF; **SILVER, WHENDEE L.** ; TIEDJE, JAMES M.; WOLTERS, VOLKMAR
BioScience, 50, 12, 1049
Dec, 2000
ISSN: 0006-3568 LANGUAGE: English RECORD TYPE: Fulltext
WORD COUNT: 9254 LINE COUNT: 00799

... **SILVER, WHENDEE L**
.... 1998. The role of soil biota in shaping flood plain morphology on the Okavango alluvial **fan** , Botswana. Earth Surface Processes and Landforms 23: 291-316.
McNaughton SJ. 1985. Ecology of a...
?

24/3,K/1 (Item 1 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)

00724615 93-73836
Motors, Fans & Blowers: Moving Solutions
Jancsurak, Joe
Appliance Manufacturer v40n3 PP: 24-28 Mar 1992
ISSN: 0003-679X JRNL CODE: APL
WORD COUNT: 2172

...TEXT: be lightweight, inexpensive, quiet and reliable.

To ensure reliability in light of the high reciprocating **radial** load the compressor develops, dual ball bearings were specified by Paul Vanaria, application engineer at...side plates need to be designed to withstand torquing on and off, without creating vibration."

SKEWED EFFORTS

"Our greatest emphasis is in low-noise packages via resonance reduction technology," says Rick...

...Springs, Ill.-based manufacturer of plastic air movement components. "One such method includes graduated blade **skews** that break up blade-pass frequencies," says Swin. The **blades** vary in terms of height and **contour** .

The concept of designing each **blade** to be **different** is a departure from changing angular locations of **blades** , says Swan. "By changing the **shapes** of the **blades** , we're reducing air turbulence and overall noise levels."

Tec Air is also introducing plastic...

24/3,K/2 (Item 1 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB

05843419 SUPPLIER NUMBER: 12120125 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Moving solutions. (innovations in electric motor design; includes related article on ISO 9000 standards) (Cover Story)
Jancsurak, Joe
Appliance Manufacturer, v40, n3, p24(5)
March, 1992
DOCUMENT TYPE: Cover Story ISSN: 0003-679X LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT
WORD COUNT: 2380 LINE COUNT: 00191

... be lightweight, inexpensive, quiet and reliable.
To ensure reliability in light of the high reciprocating **radial** load the compressor develops, dual ball bearings were specified by Paul Vanaria, application engineer at...side plates need to be designed to withstand torquing on and off, without creating vibration."
Skewed efforts
"Our greatest emphasis is in low-noise packages via resonance reduction technology," says Rick...

...Springs, III.-based manufacturer of plastic air movement components.

"One such method includes graduated blade **skews** that break up blade-pass frequencies," says Swin. The **blades** vary in terms of height and **contour** .

Me concept of designing each **blade** to be **different** is a departure from changing angular locations of **blades** , says Swin. "By changing the **shapes** of the **blades** , we're reducing air turbulence and overall noise levels."

Tec Air is also introducing plastic...

?

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File 348:EUROPEAN PATENTS 1978-2005/Nov W01
         (c) 2005 European Patent Office
File 349:PCT FULLTEXT 1979-2005/UB=20051117,UT=20051110
         (c) 2005 WIPO/Univentio

Set     Items   Description
S1    1411639   TARGET?? OR OBJECT?? OR PACKAG??? OR INSPECT??? OR LOCAT???
              OR IDENTIFICATI??? OR VERFI? OR MATCH???
S2      80966   FAN??
S3     110185   BLADE??
S4       3690   (ALTER?????? OR CHANG???? OR DIFFERENT?? OR NONZERO?? OR N-
             ON()ZERO??)(5N)(SKEW?? OR SPIRAL??)
S5       4974   RADIAL??(5N)(CURV?? OR CURVATUR?? OR (ROUND??? OR CIRCUL??-
             ???)(5N)(BOUND???? OR EDG??? OR PERIMETER?? OR CIRCUMFEREN???)
              OR NONSTRAIGHT?? OR NON()STRAIGHT??)
S6    1445363   SHAP?? OR FIGURE?? OR CONTOUR?? OR PATTERN??
S7       2076   (DISTINGUISH??? OR DIFFERENTIA????? OR DIFFER???? OR DIFFE-
             REC???? OR SEPARAT???? OR DISCRIMINAT???)(5N)BLAD???(5N)S6
S8      26775   (S2 OR S3)(5N)S6
S9         19   AU=(SILVER W? OR SILVER, W?)
S10        11   S7(S)(S4 OR S5)
S11        10   S10 NOT AD=20001030:20031122/PR
S12        10   S11 NOT AD=20031122:20051122/PR
S13         5   S7(S)(SKEW??? OR SPIRA???)(S)RADIAL??
S14         5   S13 NOT S12
?
```

12/3,K/1 (Item 1 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS

01386816
HUMERAL SPIRAL BLADE
SPIRALFORMIGE KLINGE FUR EIN HUMERUSIMPLANTAT
LAME SPIRALE HUMERALE
PATENT ASSIGNEE:
Synthes AG Chur, (659282), Grabenstrasse 15, 7002 Chur, (CH), (Proprietor designated states: all)
INVENTOR:
GREEN, James, M., 6720 S.W. Canyon Drive, Portland, OR 97225, (US)
KMIEC, Stanley, J., Jr., 13 Franklin Way, Morgantown, PA 19543, (US)
LEGAL REPRESENTATIVE:
Lusuardi, Werther Giovanni (26001), Dr. Lusuardi AG, Kreuzbuhlstrasse 8, 8008 Zurich, (CH)
PATENT (CC, No, Kind, Date): EP 1284668 A1 030226 (Basic)
EP 1284668 B1 050824
WO 2001091659 011206
APPLICATION (CC, No, Date): EP 2001921096 010425; WO 2001CH258 010425
PRIORITY (CC, No, Date): US 584381 000531
DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE; TR
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
INTERNATIONAL PATENT CLASS: A61B-017/74
ABSTRACT WORD COUNT: 2977
NOTE:
No A-document published by EPO
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	200534	475
CLAIMS B	(German)	200534	511
CLAIMS B	(French)	200534	536
SPEC B	(English)	200534	2212
Total word count - document A			0
Total word count - document B			3734
Total word count - documents A + B			3734

...SPECIFICATION uniform width at any station along longitudinal axis 10 so that sides 6 are uniformly **separated** along **blade** 2. **Blade** 2 may also be tapered so that a **distance separating** side surfaces 6 increases or decreases proceeding **along blade** 2 in the medial direction.

As best seen in **Figure** 4, neck portion 4 joins circumferential collar 3 by a smooth transition region 12. Smooth transition region 12 reduces stress risers that would otherwise result by a sharp **change** in geometry.

In Figures 1 and 4 an exemplary embodiment of spiral blade 1 is shown in which...

12/3,K/2 (Item 2 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS

01189259
ELECTRONIC CAM TYPE ROTARY CUTTER CONTROL METHOD AND ELECTRONIC CAM CURVE GENERATING METHOD

VERFAHREN ZUR ELEKTRONISCHEN STEUERUNG EINER ROTATIONSSCHNEIDEVORRICHTUNG MITTELS EINER STEUERKURVE SOWIE VERFAHREN ZUR ERZEUGUNG EINER ELEKTRONISCHEN STEUERKURVE

PROCEDE DE COMMANDE D'OUTIL ROTATIF DE COUPE A CAME ELECTRONIQUE ET PROCEDE DE GENERATION DE COURBE DE CAME ELECTRONIQUE

PATENT ASSIGNEE:
KABUSHIKI KAISHA YASKAWA DENKI, (476027), 2-1, Kurosaki-Shiroishi, Yahatanishi-Ku, Kitakyushu-Shi, Fukuoka 806-0004, (JP), (Proprietor designated states: all)
INVENTOR:
IKEGUCHI, Masao Kabushiki Kaisha Yaskawa Denki, 2-1, Kurosaki-Shiroishi Yahatanishi-ku, Kitakyushu-shi, Fukuoka 806-0004, (JP)
LEGAL REPRESENTATIVE:
Grunecker, Kinkeldey, Stockmair & Schwanhausser Anwaltssozietat (100721) , Maximilianstrasse 58, 80538 Munchen, (DE)
PATENT (CC, No, Kind, Date): EP 1151830 A1 011107 (Basic)
EP 1151830 B1 040331
WO 2000041858 000720
APPLICATION (CC, No, Date): EP 2000900147 000107; WO 2000JP46 000107
PRIORITY (CC, No, Date): JP 994523 990111
DESIGNATED STATES (Pub A): AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE; (Pub B): DE; GB
INTERNATIONAL PATENT CLASS: B26D-001/62; B26D-005/20
ABSTRACT WORD COUNT: 143
NOTE:
Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; Japanese
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200145	654
CLAIMS B	(English)	200414	540
CLAIMS B	(German)	200414	511
CLAIMS B	(French)	200414	673
SPEC A	(English)	200145	7311
SPEC B	(English)	200414	6937
Total word count - document A			7967
Total word count - document B			8661
Total word count - documents A + B			16628

...SPECIFICATION and a quadratic curve which is reduced in the long cutting operation, and a speed **pattern** of a straight **blade** is a **pattern** which is **different** from the **spiral** **blade** in that only the speed in the cutting zone is proportional to 1/cos(theta...

...SPECIFICATION and a quadratic curve which is reduced in the long cutting operation, and a speed **pattern** of a straight **blade** is a **pattern** which is **different** from the **spiral** **blade** in that only the speed in the cutting zone is proportional to 1/cos(theta...

...CLAIMS and a quadratic curve which is reduced in the long cutting operation, and a speed **pattern** of a straight **blade** is a **pattern** which is **different** from the **spiral** **blade** in that only the speed in the cutting zone is proportional to 1/cos(theta...

...CLAIMS and a quadratic curve which is reduced in the long cutting operation, and a speed **pattern** of a straight **blade** is a **pattern** which is **different** from the **spiral** **blade** in that only the speed in the cutting zone is proportional to 1/cos(theta...

12/3,K/3 (Item 3 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS

01046944
Method of producing hydrophilic resin
Verfahren zur Herstellung eines hydrophiles Harz
Procede de preparation d'une resine hydrophile
PATENT ASSIGNEE:
Nippon Shokubai Co., Ltd., (432285), 1-1, Koraibashi 4-chome, Chuo-ku, Osaka-shi, Osaka 541-0043, (JP), (Proprietor designated states: all)
INVENTOR:
Hatsuda, Takumi, 389-23, Uohashi, Amida-cho, Takasago-shi, Hyogo 676-0822, (JP)
Miyake, Koji, 931-11-G-402, Hamada, Aboshi-ku, Himeji-shi, Hyogo 671-1242, (JP)
Yano, Akito, 716-1, Yoro, Katsuhara-ku, Himeji-shi, Hyogo 671-1203, (JP)
LEGAL REPRESENTATIVE:
Muller - Hoffmann & Partner (101521), Patentanwalte, Innere Wiener Strasse 17, 81667 Munchen, (DE)
PATENT (CC, No, Kind, Date): EP 925836 A1 990630 (Basic)
EP 925836 B1 030416
APPLICATION (CC, No, Date): EP 98124532 981222;
PRIORITY (CC, No, Date): JP 97358455 971225
DESIGNATED STATES: BE; DE; FR; GB
INTERNATIONAL PATENT CLASS: B02C-019/22; B29B-013/10; C08J-003/12
ABSTRACT WORD COUNT: 88
NOTE:
Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	199926	1049
CLAIMS B	(English)	200316	1194
CLAIMS B	(German)	200316	958
CLAIMS B	(French)	200316	1226
SPEC A	(English)	199926	11237
SPEC B	(English)	200316	11264
Total word count - document A			12288
Total word count - document B			14642
Total word count - documents A + B			26930

...SPECIFICATION chamber 2 (in the direction of discharge of the hydrogel polymer); in particular, a rotary **blade** 8 having a grid shape made up of rotary **blades** with **different** respective **spiral** directions, provided on a rotary shaft 5 in the pulverizing chamber 2 below the place ...

...SPECIFICATION chamber 2 (in the direction of discharge of the hydrogel polymer); in particular, a rotary **blade** 8 having a grid shape made up of rotary **blades** with **different** respective **spiral** directions, provided on a rotary shaft 5 in the pulverizing chamber 2 below the place ...

...CLAIMS direction with respect to the pair of spiral rotary blades (6, 7), is a rotary **blade** (8) having a grid shape made up of rotary **blades** of **different** respective **spiral** directions.
10. The method of producing hydrophilic resin set forth in either claim 8 or...

...CLAIMS direction with respect to the pair of spiral rotary blades (6, 7), is a rotary **blade** (8) having a grid shape made up of rotary **blades** of **different** respective **spiral** directions.

10. The method of producing hydrophilic resin set forth in either claim 8 or...

12/3,K/4 (Item 4 from file: 348)

DIALOG(R)File 348:EUROPEAN PATENTS

00645207

FLUID TREATMENT DEVICE AND METHOD

VORRICHTUNG UND VERFAHREN ZUR FLUSSIGKEITBEHANDLUNG

PROCEDE ET DISPOSITIF DE TRAITEMENT DE FLUIDE

PATENT ASSIGNEE:

ION ENTERPRISES LTD., (1835060), Unity Chambers, High East Street, Dorchester, Dorset DT1 1HA, (GB), (Proprietor designated states: all)

INVENTOR:

BUCHANAN, John, Christopher, Sutherland, Pipshaven Forest Lane Hightown, Ringwood Hampshire BH24 3HF, (GB)

JOSLIN, Christopher, Michael, David, 38 Barrow Close Dorchester, Dorset DT1 2HG, (GB)

LEGAL REPRESENTATIVE:

Harris, Ian Richard (72231), D. Young & Co., 21 New Fetter Lane, London EC4A 1DA, (GB)

PATENT (CC, No, Kind, Date): EP 680457 A1 951108 (Basic)
EP 680457 B1 970326
EP 680457 B2 990908
WO 9417000 940804

APPLICATION (CC, No, Date): EP 94904712 940124; WO 94GB129 940124

PRIORITY (CC, No, Date): GB 9301384 930125; GB 9323546 931115; GB 9326455 931224

DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE

INTERNATIONAL PATENT CLASS: C02F-005/00

NOTE:

No A-document published by EPO

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	9936	1418
CLAIMS B	(German)	9936	1458
CLAIMS B	(French)	9936	1722
SPEC B	(English)	9936	7914
Total word count - document A			0
Total word count - document B			12512
Total word count - documents A + B			12512

...SPECIFICATION example, they could be formed with ridges, or the blades could be configured to define **spiral** passages so that the **water** is forced to follow **a** corkscrew shaped path through the device. By **alternating** the direction of the **spiral** for successive sets of blades, passing along the device from the upstream to the downstream end, the water could be forced to follow and alternating left and right **hand** corkscrew path. This enhances turbulence and mixing of the **water** from **the separate** channels in the spaces 59 between successive sets **of blades** 58.

Figure 5 **illustrates** a further embodiment where a metallic channel

separator 40, as illustrated in **Figure** 3, is additionally provided. Direct electrical connection is provided between the metallic channel separator 40...

12/3,K/5 (Item 5 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2005 European Patent Office. All rts. reserv.

00450623
VARIABLE SKEW FAN.
GEBLASE MIT ANDERLICHEM SCHIEFSTAND.
SOUFFLANTE A OBLIQUITE VARIABLE.
PATENT ASSIGNEE:
AIRFLOW RESEARCH & MANUFACTURING CORP., (399660), 304 Pleasant Street, Watertown, MA 02172, (US), (applicant designated states: DE;ES;FR;GB;IT;SE)
INVENTOR:
VAN HOUTEN, Robert, J., 14 Lloyd Street, Winchester, MA 01890, (US)
DAIUTE, David, 121 A.E. Union Street, Ashland, MA 01721, (US)
LEGAL REPRESENTATIVE:
Deans, Michael John Percy et al (30021), Lloyd Wise, Tregear & CO. Norman House 105-109 Strand, London WC2R OAE, (GB)
PATENT (CC, No, Kind, Date): EP 487563 A1 920603 (Basic)
EP 487563 B1 950927
WO 9102165 910221
APPLICATION (CC, No, Date): EP 90911885 900810; WO 90US4515 900810
PRIORITY (CC, No, Date): US 392769 890811
DESIGNATED STATES: DE; ES; FR; GB; IT; SE
INTERNATIONAL PATENT CLASS: F04D-029/38; F04D-029/32;
NOTE:
No A-document published by EPO
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	EPAB95	186
CLAIMS B	(German)	EPAB95	188
CLAIMS B	(French)	EPAB95	216
SPEC B	(English)	EPAB95	1368
Total word count - document A			0
Total word count - document B			1958
Total word count - documents A + B			1958

...SPECIFICATION hub 12 to their respective tips, where they are joined to band 11.
The fan **blades** have **different** shapes, with each of the **blades** having a **different** " **blade skew** ." The **blade skew** is defined as the angle A(sub(b)) between the midpoint (M(sub(r))) of...

12/3,K/6 (Item 6 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
(c) 2005 European Patent Office. All rts. reserv.

00414233
Fluid compressor.
Flussigkeitsverdichter.
Compresseur a fluide.
PATENT ASSIGNEE:
KABUSHIKI KAISHA TOSHIBA, (213130), 72, Horikawa-cho Saiwai-ku,

Kawasaki-shi Kanagawa-ken 210, (JP), (applicant designated states: DE;GB;IT)
INVENTOR:
Aikawa, Eiichi, c/o Intellectual Property Division, Kabushiki Kaisha Toshiba, 1-1 Shibaura 1-chome, Minato-ku, Tokyo 105, (JP)
Fujiwara, Takayoshi, c/o Intellectual Property Div, Kabushiki Kaisha Toshiba, 1-1 Shibaura 1-chome, Minato-ku, Tokyo 105, (JP)
Honma, Hisanori, c/o Intellectual Property Div., Kabushiki Kaisha Toshiba, 1-1 Shibaura 1-chome, Minato-ku, Tokyo 105, (JP)
Sone, Yoshinori, c/o Intellectual Property Div., Kabushiki Kaisha Toshiba, 1-1 Shibaura 1-chome, Minato-ku, Tokyo 105, (JP)
LEGAL REPRESENTATIVE:
Henkel, Feiler, Hanzel & Partner (100401), Mohlstrasse 37, D-81675 Munchen, (DE)
PATENT (CC, No, Kind, Date): EP 416224 A2 910313 (Basic)
EP 416224 A3 910703
EP 416224 B1 930818
APPLICATION (CC, No, Date): EP 90111475 900618;
PRIORITY (CC, No, Date): JP 89231413 890908; JP 89233411 890908
DESIGNATED STATES: DE; GB; IT
INTERNATIONAL PATENT CLASS: F04C-018/107;
ABSTRACT WORD COUNT: 149

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	EPBBF1	486
CLAIMS B	(German)	EPBBF1	409
CLAIMS B	(French)	EPBBF1	497
SPEC B	(English)	EPBBF1	3504
Total word count - document A			0
Total word count - document B			4896
Total word count - documents A + B			4896

...SPECIFICATION spiral groove in the rotating rod. More specifically, the blade, having the pitches and shape **different** from those of the **spiral** groove, is extended in its axial direction and elastically deformed so as to accord with...

...rotating rod. However, if the blade is elastically deformed in its axial direction to a **considerable** degree, the **shape** of **the respective** portions of the **blade** do not accord with the corresponding portions of the spiral groove. Thus, the respective portions...

12/3,K/7 (Item 7 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS

00310443
Slurry stirrer.
Schlammruhrer.
Agitateur a bouillie.
PATENT ASSIGNEE:
Elliott, John Swift, (956660), Little Chillaton Farm Chillaton, Loddiswell near Kingsbridge South Devon, (GB), (applicant designated states: AT;BE;DE;FR;GB;NL)
INVENTOR:
Elliott, John Swift, Little Chillaton Farm Chillaton, Loddiswell near Kingsbridge South Devon, (GB)
PATENT (CC, No, Kind, Date): EP 283316 A1 880921 (Basic)

EP 283316 B1 940518
APPLICATION (CC, No, Date): EP 88302420 880318;
PRIORITY (CC, No, Date): GB 8706487 870319; GB 8722123 870921
DESIGNATED STATES: AT; BE; DE; FR; GB; NL
INTERNATIONAL PATENT CLASS: A01C-003/02; B01F-007/00;
ABSTRACT WORD COUNT: 116

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	EPBBF1	304
CLAIMS B	(German)	EPBBF1	277
CLAIMS B	(French)	EPBBF1	281
SPEC B	(English)	EPBBF1	3224
Total word count - document A			0
Total word count - document B			4086
Total word count - documents A + B			4086

...SPECIFICATION Figure 2B, an alternative form of impeller comprises a similar tubular shaft 14 having two **blades** **30** (only one of which is shown in **Figure** 2B) welded at an angle of about 60(degree) to the axis thereof. The blades 30 have substantially straight **radial** leading **edges** 31 and **rounded** trailing **edges** and **circumferential** flanges 33 welded around part of the circumference of the blades 30. In view of...

12/3,K/8 (Item 1 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT

00268827 **Image available**
FLUID TREATMENT DEVICE AND METHOD
PROCEDE ET DISPOSITIF DE TRAITEMENT DE FLUIDE
Patent Applicant/Assignee:
ION ENTERPRISES LTD,
BUCHANAN John Christopher Sutherland,
JOSLIN Christopher Michael David,
Inventor(s):
BUCHANAN John Christopher Sutherland,
JOSLIN Christopher Michael David,
Patent and Priority Information (Country, Number, Date):
Patent: WO 9417000 A1 19940804
Application: WO 94GB129 19940124 (PCT/WO GB9400129)
Priority Application: GB 931384 19930125; GB 9323546 19931115; GB 9326455 19931224
Designated States:
(Protection type is "patent" unless otherwise stated - for applications prior to 2004)
AT AU BB BG BR BY CA CH CN CZ DE DK ES FI GB HU JP KP KR KZ LK LU LV MG MN MW NL NO NZ PL PT RO RU SD SE SK UA US UZ VN AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE SN TD TG
Publication Language: English
Fulltext Word Count: 9812

Fulltext Availability:
Detailed Description

Detailed Description
... that the water
is forced to follow a corkscrew shaped path through the device. By **alternating** the direction of the **spiral** for successive sets of

blades,
passing along the device from the upstream to the downstream...

...and right hand
corkscrew path. This enhances turbulence and mixing of the water from the **separate** channels in the spaces 59 between successive sets of **blades** 58.

Figure 5 illustrates a further embodiment where a metallic channel **separator** 40, as illustrated in Figure 3, is additionally provided. Direct electrical connection is provided between...

12/3,K/9 (Item 2 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00184823
VARIABLE SKEW FAN
SOUFFLANTE A OBLIQUITE VARIABLE
Patent Applicant/Assignee:
AIRFLOW RESEARCH AND MANUFACTURING CORPORATION,
Inventor(s):
VAN HOUTEN Robert J,
DAIUTE David,
Patent and Priority Information (Country, Number, Date):
Patent: WO 9102165 A1 19910221
Application: WO 90US4515 19900810 (PCT/WO US9004515)
Priority Application: US 89769 19890811
Designated States:
(Protection type is "patent" unless otherwise stated - for applications prior to 2004)
AT BE CH DE DK ES FR GB IT JP LU NL SE
Publication Language: English
Fulltext Word Count: 1538

Fulltext Availability:
Detailed Description

Detailed Description
... hub 12 to their respective tips, where they are joined to band 11.

The fan **blades** have **different** shapes, with each of the **blades** having a **different** " **blade skew** ," The **blade skew** is defined as the angle Ab between the midpoint (Mr) of the blade root and...

12/3,K/10 (Item 3 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
(c) 2005 WIPO/Univentio. All rts. reserv.

00124405
SOLID MATERIALS PUMP
POMPE POUR MATERIAUX SOLIDES
Patent Applicant/Assignee:
METAL TECHNOLOGIES INC,
Inventor(s):
CORKILL William M,

Patent and Priority Information (Country, Number, Date):
  Patent: WO 8502658 A1 19850620
  Application: WO 84US2036 19841212 (PCT/WO US8402036)
  Priority Application: US 83283 19831215
Designated States:
(Protection type is "patent" unless otherwise stated - for applications prior to 2004)
  AT AU BE BR CH DE FI FR GB JP KR LU NL NO SE
Publication Language: English
Fulltext Word Count: 3657

Fulltext Availability:
  Detailed Description
Detailed Description
... namely the blade surface 156, the cylindrical surface 167, and the tangential surface 165. The **blade** surface 156, as best shown in **Figure** 7, **differs** from that configuration as shown in **Figure** 3. In particular, the **blade** surface 156 includes a first curved portion 156a that is defined as the curve of...

...fixed point. The fixed point of rotation is determined such that a tangent to the **curved** portion 156a disposed at the **radial** edge 158 forms an angle a' with respect to the leading surface 163. The trailing...
?

14/3,K/1 (Item 1 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS

01316878
A METHOD AND A DEVICE FOR GAS TREATMENT
VERFAHREN UND VORRICHTUNG ZUR GASBEHANDLUNG
PROCEDE ET DISPOSITIF POUR LE TRAITEMENT D'UN GAZ
PATENT ASSIGNEE:
NORSK HYDRO ASA, (3252320), , 0240 Oslo, (NO), (Proprietor designated states: all)
INVENTOR:
EIMER, Dag, Arne, Kvartsv. 21, N-3931 Porsgrunn, (NO)
LEGAL REPRESENTATIVE:
Bleukx, Lucas Lodewijk M. (19399), Bleukx Consultancy BVBA Rijksweg 237, 3650 Dilsen-Stokkem, (BE)
PATENT (CC, No, Kind, Date): EP 1242164 A1 020925 (Basic)
EP 1242164 B1 040602
WO 2001045825 010628
APPLICATION (CC, No, Date): EP 2000980131 001204; WO 2000NO411 001204
PRIORITY (CC, No, Date): NO 996410 991222
DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE; TR
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
INTERNATIONAL PATENT CLASS: B01D-053/00; F01N-005/00; F28D-011/02; F28F-005/00
NOTE:
No A-document published by EPO
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	200423	975
CLAIMS B	(German)	200423	917
CLAIMS B	(French)	200423	1132
SPEC B	(English)	200423	6519
Total word count - document A			0
Total word count - document B			9543
Total word count - documents A + B			9543

...SPECIFICATION The grooves do not need to be continuous, and they may also be intermittent and **shaped** into a **blade pattern** as shown in Fig. 2.
Fig. 16 shows a **different** approach to building a gas treating entity 3 based on a functional element for mass...

...packing 230 where the gas 1 moves axially and the auxiliary liquid (not shown) moves **radially** as in the previous figures. As before, the functional element is mounted on the hollow...

14/3,K/2 (Item 2 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS

00813555
AXIAL FLOW FAN
AXIALLUFTER
VENTILATEUR A ECOULEMENT AXIAL
PATENT ASSIGNEE:
VALEO THERMIQUE MOTEUR, (1119260), 8, rue Louis-Lormand, La Verriere,

78320 Le Mesnil Saint-Denis, (FR), (Proprietor designated states: all)
INVENTOR:
ALIZADEH, Ahmad, 9409 Aspen Grove Lane, Indianapolis, IN 46250, (US)
LEGAL REPRESENTATIVE:
Neobard, William John (76881), Page White & Farrer 54 Doughty Street, London WC1N 2LS, (GB)
PATENT (CC, No, Kind, Date): EP 766791 A1 970409 (Basic)
EP 766791 B1 020619
WO 9633345 961024
APPLICATION (CC, No, Date): EP 96913518 960418; WO 96EP1660 960418
PRIORITY (CC, No, Date): US 425991 950419
DESIGNATED STATES: DE; ES; FR; GB; IT
INTERNATIONAL PATENT CLASS: F04D-029/38
NOTE:
No A-document published by EPO
LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	200225	546
CLAIMS B	(German)	200225	517
CLAIMS B	(French)	200225	600
SPEC B	(English)	200225	3387
Total word count - document A			0
Total word count - document B			5050
Total word count - documents A + B			5050

...SPECIFICATION may have more than one peak and trough.
The described embodiment has an overall forward **skew** , as seen by the medial line (23) in Figure 2. This however is a property...

...in other words the medial line and the leading and trailing edges could be substantially **radial** , or the leading edge could be **skewed** one way and the trailing edge **skewed** the other way to produce a conical effect. Any other **skew** is also envisaged. Although the invention has been described with respect to a five bladed...

...of blades could be provided. Finally the solidity ratio of the fan could be substantially **different** to that shown.
Turning to **Figure** 8, the thickness of the **blade** could be varied between the leading edge and the trailing edge. Specifically as the **radially** outer part of the leading edge carries the highest load, the trailing edge of the...

14/3,K/3 (Item 3 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS

00465670
Method and apparatus for the wet separation of heterogeneous mixtures containing solids having different densities.
Verfahren und Vorrichtung zum nassen Trennen von heterogenen Mischungen aus Feststoffen unterschiedlicher Dichte.
Procede et dispositif pour la separation humide de melanges heterogenes contenant des solides de densites differentes.
PATENT ASSIGNEE:
OFFICINE MECCANICHE FERRERO S.p.A., (945190), Via Privata Trento n. 4, I-17047 Vado Ligure (Sv), (IT), (applicant designated states: AT;BE;CH;DE;DK;ES;FR;GB;GR;LI;LU;NL;SE)
INVENTOR:

Ferrero, Francesco, Via Privata Trento n. 4, I-17047 Vado Ligure (SV), (IT)
LEGAL REPRESENTATIVE:
Ferrarotti, Giovanni (42252), Studio Consulenza Tecnica Dr. Ing. Giovanni Ferrarotti Via Alla Porta Degli Archi 1/7, I-16121 Genova, (IT)
PATENT (CC, No, Kind, Date): EP 469360 A2 920205 (Basic)
EP 469360 A3 920318
EP 469360 B1 940126
APPLICATION (CC, No, Date): EP 91111589 910712;
PRIORITY (CC, No, Date): IT 9012501 900802
DESIGNATED STATES: AT; BE; CH; DE; DK; ES; FR; GB; GR; LI; LU; NL; SE
INTERNATIONAL PATENT CLASS: B03B-005/28; B03B-005/62;
ABSTRACT WORD COUNT: 151

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS B	(English)	EPBBF1	681
CLAIMS B	(German)	EPBBF1	647
CLAIMS B	(French)	EPBBF1	737
SPEC B	(English)	EPBBF1	2154
Total word count - document A			0
Total word count - document B			4219
Total word count - documents A + B			4219

...SPECIFICATION its downward motion towards the impeller and even water-repellent items which tend to float **are** entering the liquid whirlpool and entrained downwards. The dispersed mixture thus obtained is hurled outwards...

...flow over the edge 4 to be discharged through the drain channel 5 whereas another **part** will be drawn back to the center of the dispersion chamber 2 to start another...

14/3,K/4 (Item 1 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT

00812565 **Image available**
A METHOD AND A DEVICE FOR GAS TREATMENT
PROCEDE ET DISPOSITIF POUR LE TRAITEMENT D'UN GAZ
Patent Applicant/Assignee:
NORSK HYDRO ASA, N-0240 Oslo, NO, NO (Residence), NO (Nationality), (For all designated states except: US)
Patent Applicant/Inventor:
EIMER Dag Arne, Kvartsv. 21, N-3931 Porsgrunn, NO, NO (Residence), NO (Nationality), (Designated only for: US)
Legal Representative:
JOHNSEN Venche Hoines (agent), Norsk Hydro ASA, N-0240 Oslo, NO,
Patent and Priority Information (Country, Number, Date):
Patent: WO 200145825 A1 20010628 (WO 0145825)
Application: WO 2000NO411 20001204 (PCT/WO NO0000411)
Priority Application: NO 996410 19991222
Designated States:
(Protection type is "patent" unless otherwise stated - for applications prior to 2004)
AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
(EA) AM AZ BY KG KZ MD RU TJ TM
Publication Language: English
Filing Language: English
Fulltext Word Count: 7957

Fulltext Availability:
Detailed Description

Detailed Description
... The grooves do not need to be continuous, and they may also be intermittent and **shaped** into a **blade pattern** as shown in Fig. 2.

Fig. 16 shows a **different** approach to building a gas treating entity 3 based on a functional element for mass...

...packing 230 where the gas 1 moves axially and the auxiliary liquid (not shown) moves **radially** as in the previous figures. As before, the functional element is mounted on the hollow...

14/3,K/5 (Item 2 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT

00731443 **Image available**
APPARATUS FOR MANUFACTURING THERMOPLASTIC RESIN FOAM PELLETS
APPAREIL DESTINE A LA FABRICATION DE GRANULES EN MOUSSE DE RESINE THERMOPLASTIQUE
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Detailed Description

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... which are
individually locked to the two rings 26 and 27 at both ends and **spirally** extend along the rounded external surface of the cylindrical die 11 at the position around the **radial** resin extrusion ports 23 of the die 11,
spirally move on the rounded external surface of the die

while coming into close contact with...

...steel wires 30 thus
continuously cut the thermoplastic resin foam lines coming out of the **radial** resin extrusion ports 23 of the die 11 into pellets having a predetermined length, thus...

...line cutting operation of
this apparatus is almost free from operational noise or operational vibration **different** from a conventional apparatus having panel- **shaped** cutting **blades** . The apparatus of this invention also effectively produces uniform-sized and uniform-shaped thermoplastic resin...

...30 of this
invention have a diameter of 0.3 mm - 2.0 mm and **spirally** move on the rounded external surface of the die 11 while coming into close contact...

...of this invention
is almost free from a generation of frictional heat or air current **different** from the conventional apparatus having the panel- **shaped** cutting **blades** . Since the apparatus is free from frictional heat, desired resin foam extruding conditions in addition...